

YEFREMOVA, L.A., zasluzhennyy master sporta; ZAK, M.G.; RAKITINA, R.I., starshiy metodist; ZABAROVSKIY, K.K.; GOL'BERG, A.Ye.; KAZAKOV, M.B.; ZHAVORONKOV, I.Ye. (Kerch'); KLYUCHARENKO, I.S. (Moskva); B^LAYA, N.A., kand.med.nauk; POPOV, B.F., artist

We continue the discussion of the power of physical culture.

Zdorov'ie 8 no.8:26-28 Ag '62. (MIRA 19:8)

1. Zamestitel' glavnogo vracha 2-go Moskovskogo vrachebno-fizkul'turnogo dispansera (for Yefremova).
2. Glavnyy vrach Oblastnogo vrachebno-fizkul'turnogo dispansera, Rostov-na-Donu (for Zak).
3. Respublikanskiy vrachebno-fizkul'turnyy dispanser, Kiyev (for Rakitina).
4. Glavnyy vrach Respublikanskogo vrachebno-fizkul'turnogo dispansera, Minsk (for Zabarovskiy).
5. Zaveduyushchiy kabinetom lechebnoy fizkul'tury Respublikanskogo vrachebno-fizkul'turnogo dispansera, Minsk (for Gol'berg).
6. Glavnyy vrach Gorodskogo vrachebno-fizkul'turnogo dispansera, Sverdlovsk (for Kazakov).
7. Gosudarstvennyy Akademicheskyy Malyy teat (for Popov).

(PHYSICAL EDUCATION AND TRAINING)

GOL'BERG, D., kand.tekhn.nauk; REMDINO, S., inzhener-arkhitektor;
SERZHANTOV, S., inzhener-arkhitektor

Panel and frame-panel reed pressboard buildings. Zhil.stroi.
no.8:17-18 Ag '61. (MIRA 14:8)
(Reed products) (Walls)

GOLDBERG, D., kand. tekhn. nauk; RENDINO, S., arkhitektor; SERZHENYOV, S.,
arkhitektor

The village of Sverdlovo in several years. Sil¹. bud. 11
no. 8:16 My '61. (MIRA 14:6)
(Sverdlovo--City planning)

GOL'BERG, D., kand.tekhn.nauk (Odessa)

Use of reed in rural construction. Bud. mat. i konstr. 4
no.3:50-54 My-Je '62. (MIRA 15:5)
(Reed products) (Ukraine--Farm buildings)

GOL'BERG, D., kand.tekhn.nauk; RENDINO, S., arkhitektory; SERZHANTOV, S.,
arkhitektory

Using precast methods in reed construction. Sel', stroi. no.7:
8-8b '62. (MIRA 15:3)

(Reed products) (Farmhouses)

GOL'BERG, D., kand.tekhn.nauk; SHTERNBERG, K., inzh.

Silicalcite tile and other products for rural construction.
Bud.mat.i konstr. 4 no.4:46-49 JI-Ag '62. (MIRA 15:8)
(Sand-lime products) (Farm buildings)

GOL'BERG, D., kand.tekhn.nauk; AGURA, D. [Ahura, D.], inzh.

Field camp for machinery operators. Sil'.bud. 12 no.4:11-13
~~no.4:11-13~~ Ap '62. (MIRA 15:8)
(Farm buildings)

GOLD'BLAG, D.I., prof.; LEVINA, G.P.; MALININ, I.M.; ERPOVA, G.V.;
GOLD'BLAG, Ye.I.; TITREINA, T.I.; LAMONIN, V.S.; TITKIN, N.B.;
GOLD'BLAG, A.I.; SHENKINA, Ye.A.

Clinical significance of erythrocytometry. Izv. resat. i perel.
krovi 9 no.10:8-14. 1964. (ISSN 18:3)

1. Tomskiy meditsinskiy institut.

GUR'YEV, A.N., kand.med.nauk; LISOVSKAYA, N.D., kand.med.nauk; SERIFKIN, Yu.K.;
SOMOV, B.A.; GOL'DBERG, D.M.; LEBEDEV, B.M.

New drugs. Vest. dermat. i ven. 38 no.9:78-79 S '64.

(MIRA 18:4)

S/065/60/000/011/003/009
E030/E412

AUTHORS: Kreyn, S.E., Kalayman, Ye.N., Abramovich, S.Sh.,
Gol'berg, D.O., Stupishin, Yu.V., and Smirnova, N.I.

TITLE: Preparation of Low Pour Point Distillate Oils of Type
MK-8 (MK-8) From Tuymazy Devonian Crudes

PERIODICAL: Khimiya i tekhnologiya topliv i masel, 1960, No. 11,
pp. 11-14

TEXT A method has been developed for obtaining high quality low pour point distillate lubricating oils of type MK-8 from Tuymazy Devonian crude and from Balakhany, Dossor and Anastas'yevka crudes. Previous methods for obtaining MK-8 (MS-8) and transformer oils from sulphurous Tuymazy Devonian crudes had used refining with phenol, followed by MEK/toluene or acetone/toluene extraction of paraffins, and by contacting with clay. They all failed on oxidation stability. The present method takes a very narrow cut (IBP and 7, 12, 28, 32, 47, 54 and 64% boiling at 47, 85, 120, 205, 225, 300, 330 and 350°C respectively), refines with phenol, and extracts the paraffins by chilling to -65°C with a mixture of ammonia and ethanol and uses no further contacting. Typical data for the oil are: density 0.835 gm/cc; flash point (closed) 158°C.

Card 1/2

S/065/60/000/011/003/009
EO30/E412

Preparation of Low Pour Point Distillate Oils of Type MK-8 (MK-8)
From Tuymazy Devonian Crudes

viscosity 6.5 centistokes at 50°C, sulphur content 0.37%. It satisfies specification ГОСТ 6547-33 (GOST 6547-33) with a pour point of -55°C. Even higher qualities may be obtained by further fractionation, putting the 305 to 355°C cut through a column with a 250 to 253°C base temperature and taking the 50 to 65°C cut with a viscosity of 5.9 to 6.3 centistokes at 50°C. This oil is superior both to MK-8 and transformer oil with lower viscosity, smaller viscosity-temperature slope from 20 to +50°C and greater oxidation stability on addition of 0.2% Ionol anti-oxidant (meeting specification ГОСТ 981-85 (GOST 981-85)). If 0.7% Ionol is added exceptional high temperature oxidation stability is obtained, giving only 0.1 gm KOH per gm of oil for oxidation at 170°C. There are 2 tables.

GOL'BERG, L. R. Doc Land Tech Sci -- (USSR) "Planning, building,
and ¹⁹⁵⁸⁷public service of field stands of the tractor brigades in
the steppes of the Ukraine." Doc, 1957. 15 pp. 20 cm. (Moscow
Inst of ^(Agricultural) ~~Engineering~~, 110 copies
(AL, 21-57, 101)

GOL'BERG, D.R., kand.tekhn.nauk; SETERNBERG, K.L., inzh.

Silicalcite products plant for farm construction. Stroi. mat. 8
no.4:5 Ap '62. (MIRA 15:8)

(Sand-lime products)
(Odessa Province--Building materials industry)

GOLBERG, D. S.

Plastic compositions for dental work: I. E. Bruckner, A. E. Rofs, and D. Sh. Golberg. U.S. Pat. 2,928,828, Oct. 25, 1960. Compur. part. 1000. 1000. 1000. 1000.

Artificial teeth consist of copolymer of styrene, Me methacrylate, and di-Bu phthalate, plus methyl methacrylate and di-Bu phthalate. A resinous base is formed from 85 parts copolymer and 15 parts Me methacrylate by wt. The copolymer is made up of styrene 10, Me methacrylate 75, and Bu phthalate 15, while the resin (methyl methacrylate) is made up of Me methacrylate 85 and di-Bu phthalate 15. To this comp. is added 10 parts di-Bu phthalate.

GOL'BERG, F.R. (Leningrad)

Clinical aspects of Tay-Sachs amaurotic idiocy. Zhur. nevr. i psikh.
65 no.7:1101 '65. (MIRA 18:7)

SOKOLOV, Anatoliy Sergeyevich; GOLDBERG, G.I., red.; MAL'KOVA, N.V.,
tekhn. red.

[Lamps and lighting devices for motor vehicles] Avtomobil'nye
lampy i osvetitel'nye pribory. 2d.3., perer. Moskva, Nauchno-
tekhn. izd-vo M-va avtomobil'nogo transp. i shosseinykh dorog
MFTS, 1961. 80 p. (NIRA 15:3)

(Motor vehicles--Lighting)

KISELEV, B.F.; SOLODUKHIN, I.A.; NIBONOV, A.A.; SOLOBERG, G.S.

Industrial production of enclosing elements made of expanded
clay foam concrete. Stroitel'stvo, No. 215, 1965.

(MLA 19:3)

1. Glavnyy konstruktors sektsiya tekhnicheskoy Byuro vnedreniya
Nauchnoissledovatel'skogo instituta betona i zhelyezobetona
(for K. 1965). 2. Glavnyy konstruktors sektsiya vnedreniya Nauchno-
issledovatel'skogo instituta betona i zhelyezobetona (for
Solobov). 3. Glavnyy konstruktors sektsiya tekhnicheskoy Byuro vnedreniya
Nauchnoissledovatel'skogo instituta betona i zhelyezobetona.

07-12-1958-11-17 1

AUTHORS: Novikov, V., Senior Instructor; Gol'dberg, I., Instructor

TITLE: The Tales Told by QSL Cards (O shkhovnykh kartochkakh zivitantzii)

PERIODICAL: Radio, 1958, Nr 11, pp 21-22 (USSR)

ABSTRACT: The authors say that the ever-increasing stream of QSL cards (cards sent by radio stations to each other to certify that radio contact had been established between them) pouring into the exchange office of the Tsentral'nyy radioklub DSSAAF (Central Radio Club of the DSSAAF) is a clear indication of the widening interest in amateur radio in the USSR, and the warm friendship between Soviet radio amateurs and their colleagues in the Peoples' Democracies. However, they complain that many Soviet radio amateurs are not sending cards to those with whom they have established contact. There are 6 drawings and 1 photo.

ASSOCIATION: Tsentral'nyy radioklub DSSAAF SSSR (The Central DSSAAF Radio Club of the USSR)

GOLBERG, Iosif Griportyevich; RSK, U.S., Red.

[Universal laboratory electroplating system] Universall-
naia laboratornaia ustanovka dlia gal'vanirovaniia. Le-
ningrad, 1964. 13 p. (S. A. 1118)

BRUK, E.S.; GOL'BERG, I.G.; SMIRNOV, A.I.

Unit for electroplating. Mashinostroitel' no.6:26 Ja '61.
(MIRA 14:6)
(Electroplating—Equipment and supplies)

S/118/62/000/005/001/001
D234/D308

AUTHORS: Gol'berg, I.G., Sverdlov, V.I., Engineers, and
Shub, I.Ye., Candidate of Technical Sciences

TITLE: An automated department for casting under pressure

PERIODICAL: Mekhanizatsiya i avtomatizatsiya proizvodstva,
no. 5, 1962, 4 - 6

TEXT: Description of the department for casting zinc
alloys and brass, designed by Gipropribor and NIITMASH Leningrads-
kogo sovmarkhoza jointly with Leningradskiy karbyuratornyy zavod
(Leningrad Carburetor Plant) and now under construction at the lat-
ter. Magnetohydrodynamic pumps for proportioning and transporting
metal were designed at the Institute of Physics of the Latvian Aca-
demy of Sciences and by TsKTB. In the section of zinc alloys liquid
metal is fed directly to the batchers through a pipeline and the
pump secures constant pressure. Automatic control system is based on
the principle of controlling coltage supplied to the windings of pump,

Card 1/2

An automated department ...

S/118/62/000/005/001/001
D234/D308

and is contactless and without relays. In the brass casting section liquid metal is transported by accumulator trolleys. Automatic transport inside the department, automatic control of temperature in all parts of the pipeline etc., are also provided. There are 3 figures.

Card 2/2

GOL'BERG, I.G.; SMIRNOV, A.I.

Pickling unit. Mashinostroitel' no.7:29 J1 '62.
(Metals--Pickling)

(MIRA 15:7)

GOL'BERG, I.G., inzh.; SVERDLOV, V.I. inzh.; SHUB, I.Ye., kund.tekhn.nauk

Automatic die-casting shop. Mekh.i avtom. no.5:4-6 '62.
(MIRA 16:5)

(Die casting)

(Automation)

GOLDBERG, I.

"Kinetics and Optimum Phenomenon of Vulcanization," Dok. AN, 53, No. 4, 1946.
Research Inst. of Tire Ind., Moscow.-1946-.

GOL'BERG, I.

THE KINETICS AND OPTIMUM STATE OF ~~#####~~ VULCANIZATION. I. Vulcanization of natural rubber. B. Dogadkin, B. Karmin, and I. Gol'berg. J. Gen. Chem.(USSR) 17, 1070-9 (1947) (In Russian); cf. C.A. 41,3315f. -- In vulcanization, 2 processes occur simultaneously "constructive" combination of S and "destructive" combination of O with opposing effects on the tensile strength?);

(Note: balance of card not copied) SEE: Dogadkin, B. A.

68. Vulcanisation of rubber. III. Kinetics of the change of tensile strength during vulcanisation of natural rubber. B. A. DOGADIN, B. KAZHIS, and I. GOL'BERG. *Koll. Zhur.*, 1947, 9, 253-60; Translation: *Rubb. Chem. Technol.*, 1944, 27, 616-31. It is shown that the tensile strength of vulcanised butadiene-styrene rubber is a linear function of the plasticity of the original material. Proceeding from the concept of the presence during vulcanisation of a number of opposing processes of structure formation and destruction, both of which influence the molecular weight of the rubber, a general equation is derived which expresses the kinetics of the change of tensile strength of a vulcanisate. Experimental material is offered which proves the applicability of the proposed equation to the representation of the kinetics of vulcanisation of natural rubber with relatively small sulphur contents (up to 3%). 35724

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Vulcanization of rubber. III. Kinetics of change of
tensile strength of natural rubber during vulcanization.
B. A. Dogadkin, B. Karim, and I. Goldberg (Sci. Research
Inst. The Ind., Moscow, *Russk. Khim. Tekhnol.* 17,
615-21 (1951); See C. I., 47, 1952

C. C. Davis

2/11/44

10
Jew

GOL'BERG, I.I.

GOL'BERG, I.I.

Method for the statistical processing of the results of physical
and mechanical tests. Kauch. i rez. 16 no.6:23-27 Je '57.

(MIRA 10:10)

1.Nauchno-issledovatel'skiy institut rezinovykh izdeliy shirokogo
potrebleniya.

(Rubber--Testing) (Mathematical statistics)

SCV/134-88-7-14/19

AUTHORS: Fedynkin, D.E. and Gol'berg, I.I.

TITLE: A Contact Thickness Gauging Instrument for Easily Deformable Materials (Kontaktnyy belshchikomer tlye legkodeformiruyemykh materialov)

PERIODICAL: Kauchuk i rezina, 1958, Nr 7, pp 38 - 39 (USSR)

ABSTRACT: An illustration and description is given of a new instrument, specially designed for the purpose of measuring the thickness of spongy or easily deformable materials. It appears to have been adapted from a microscope with rack and pinion coarse adjustment and a micrometer screw fine adjustment for the barrel. The position of the barrel in relation to the table is determined by a vertical screw on the left-hand side of the illustration. A silver disc, 20 mm diameter, weighing 0.5 g, is suspended from the barrel and above this disc is an electrical contact. In operation, the barrel is lowered until the disc touches and compresses the specimen of the material, forcing the disc against the contact. The barrel is then raised by the micrometer screw until the contact is broken, which is indicated by a lamp, seen at the top of the illustration. The silver plate used as a contact

Card 1/2

SOV/158-81-7-14/19

A Contact Thickness Gaging Instrument for Basal, Delineable
Materials

position of this report.

The instrument is accurate to 0.1 mm. The table gives a comparison of the thicknesses assessed on four different samples (1 to 4), by four different operators (1 to 4 in the horizontal block) using methods A and B. Method A is the use of a micrometer that measures the thickness of the specimen while under a definite compression and method B being the use of the contact instrument described. The consistency of measurement between the four operators when using method B is evident. Arithmetic means and maximum deviations from these means for the two methods A and B are given in the four right-hand columns of the table.

ASSOCIATION: Reshchno-Issledovatel'skiy Institut rezinovykh i lateksnykh izdeliy (Research Institute for Rubber and Latex Products)

Card 2/2

1 Gages--Design 2 Gages--operation

GOL'BERG, I.I.

Using mathematical statistics in industry ("Using statistic
methods to increase quality of production" by I. Gofman, P.
Rabinovich. Reviewed by I.I. Gol'berg). Kauch. i raz. 17
no.11:40 N '68. (HIRA 11:12)

(Mathematical statistics)
(Gofman, I.) (Rabinovich, P.)

SCV/138-59-4-13/26

AUTHORS: Pedyukin, D.L., Grasyuk, Yu.Z. and Gol'berg, I.I.

TITLE: Determination of the Kinetics of Diffusion in Balls
(Opredeleniye kinetiki diffuzii v myachakh)

PERIODICAL: Kauchuk i Rezina, 1959, Nr 4, pp45-47 (USSR)

ABSTRACT: The playing properties of tennis balls are determined largely by visco-elastic properties, which in turn are dependent on internal pressure and the properties of the rubber. The standard requires that the internal pressure at the time of manufacture should be from 300 to 500 mm Hg. In view of the wide variation allowable, the pressure as determined after storage may show similar wide variation. Thus a kinetic test to measure actual rate of diffusion is helpful. Figure 1 shows a manometer formed of capillary tube, 1.2 mm bore, to give low dead capacity. The ball is punctured by a hollow needle, and a paste of lead oxide and glycerine is used to ensure leak tightness. The ball is punctured at the seam between gores. The

Card 1/2

007/138-59-4-13/26

Determination of the Kinetics of Diffusion in Balls

difference in pressure is logged over several days, and kinetic diffusion curves, as in figure 2, where p/p_0 is the ratio of the actual pressure to the initial pressure is plotted against time in days. A formula and constants were found to fit these curves. From these, using statistical distributions, the probable time in storage before given percentages of the balls will lose pressure to a level below 300 mm Hg is tabulated in Table 2, where time is given in days. Balls sprayed or coated with a polyamide film are compared with uncoated balls. It is seen that the actual period at which pressure is maintained within the set limits is much shorter than the required six months. It is suggested that balls must therefore be stored under pressure in sealed containers. Coating with a polyamide film does increase storage life considerably.

There are 2 figures and 2 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy (Scientific-research Institute for Rubber and Latex Articles)

report presented at the 1st All-Union Congress of Theoreticians and Engineers, Moscow, 27 Jan - 1 Feb 1961.

- 68. M. S. Gerasimov (Moscow). On the problem of solving problems of the bending of shells with the use of electronic digital computers.
- 69. O. T. Gerasimov, S. O. Gerasimov (Moscow). Solution of arbitrary problems of hydrodynamics of viscous and viscoplastic fluids.
- 70. A. V. Gerasimov (Moscow). An approximate stability analysis of plates in the elastic-plastic range.
- 71. O. A. Gerasimov (Moscow). Some problems concerning the time flow of compressible plastic media.
- 72. V. A. Gerasimov (Moscow). On the problem of the stability of shells of thin-walled bodies in the case of elastic-plastic deformation.
- 73. I. A. Gerasimov (Moscow). A dynamic problem for a circular shell.
- 74. M. V. Gerasimov (Moscow). Testimonies on a new method of application of mechanics to geological problems.
- 75. M. V. Gerasimov, D. Gerasimov (Moscow). Simulation of processes of plastic deformation and rupture of shells with great variations of time and size.
- 76. I. A. Gerasimov (Moscow). Development of a theory of plastic deformation of shells of the shape of cylindrical shells.
- 77. I. A. Gerasimov (Moscow). Generalizations of the laws of plasticity.
- 78. I. A. Gerasimov (Moscow). The propagation of longitudinal waves in a viscoplastic rod.
- 79. A. M. Gerasimov, V. O. Gerasimov (Moscow). Descriptive and experimental methods of study of the laws of the plastic deformation of shells.
- 80. I. A. Gerasimov (Moscow). A generalized theory of plastic deformation of shells.
- 81. I. A. Gerasimov (Moscow). The theory of finite deformations of viscoplastic shells.
- 82. I. A. Gerasimov, S. A. Gerasimov (Moscow). A general theory of shells.
- 83. I. A. Gerasimov (Moscow). Development of the theory of thin elastic shells.
- 84. A. A. Gerasimov (Moscow). Approximate integration of the equations of the theory of thin elastic plates.
- 85. M. I. Gerasimov (Moscow). Generalization of the theory of shells of the shape of cylindrical shells under the pressure of a fluid filling.
- 86. A. A. Gerasimov (Moscow). On secondary effects in torsion and bending of nearly prismatic bars.
- 87. L. V. Gerasimov (Moscow). On filtration theory and viscous friction in water-saturated sand under dynamic conditions.
- 88. O. A. Gerasimov, G. A. Gerasimov (Moscow). Contribution to the theory of the elastic non-dimensional solution of various problems.
- 89. A. A. Gerasimov (Moscow). On elastoplastic deformation of nonhomogeneous plates and disks.
- 90. A. A. Gerasimov (Moscow). Equilibrium of membrane shells of revolution for large displacements and strains.
- 91. O. A. Gerasimov (Moscow). Creep design of thin viscoplastic shells.
- 92. A. A. Gerasimov (Moscow). The general equations of shell dynamics and the particular solutions.
- 93. D. V. Gerasimov (Moscow). Torsion of an elastic layer.
- 94. I. A. Gerasimov (Moscow). Stress concentration in thick elastic shells under large creep deformations.
- 95. V. A. Gerasimov, V. I. Gerasimov (Moscow). The problem of an elastic shell of arbitrary shape.
- 96. I. A. Gerasimov (Moscow). The problem of an elastic shell of arbitrary shape.
- 97. O. A. Gerasimov (Moscow). The bending of a hollow prismatic rod with a rectangular hole.
- 98. I. A. Gerasimov (Moscow). The limit equilibrium of an elastic-plastic disk that is compressed between rough rigid plates.
- 99. O. A. Gerasimov (Moscow). A three-dimensional problem of the stability of a shell of arbitrary shape.
- 100. The problem of the stability of a shell of arbitrary shape under its own weight and hydrostatic pressure on one of its surfaces when the axis of the shell has an arbitrary orientation.
- 101. M. V. Gerasimov, V. I. Gerasimov (Moscow). Bending of plates of arbitrary shape under the action of a distributed load.
- 102. The problem of the stability of a shell of arbitrary shape under its own weight and hydrostatic pressure on one of its surfaces when the axis of the shell has an arbitrary orientation.

S/069/60/012/02/019/024
DC54/D002

50

AUTHOR: Gol'berg, I.I. ✓

TITLE: On Ultimate Stress in Constant Rate Deformation

PERIODICAL: Kolloidnyy zhurnal; 1960, Vol XXII, Nr 2, pp 249-251 (USSR)

ABSTRACT: The author gives an interpretation of the case, in which a more complicated Maxwellian liquid during deformation at constant rate exhibits the phenomenon of maximum stress without disintegration of the structure. The author exemplifies this assumption on a four-element model consisting of two Maxwell models combined parallel one to another (see diagram), the period of relaxation in the first branch of the model being longer than the relaxation period in the second branch, $\tau_1 > \tau_2$. On repeated elongation it is possible to accumulate a certain amount of stress in

8/069/00/01/02/019/024
DO54/DO02

On Ultimate Stress in Constant Rate Deformation

the first branch, designated by the author with $2\sigma_0$. On releasing the model, the extended spring E_1 will contract at once, calling forth thereby compression of spring E_2 . Contracting of spring E_1 will stop, when spring E_2 will be compressed to stress σ_0 . During the described process the pistons remain immovable, because deformation occurs at once. The general stress in the model is equal to zero, but the model is "charged" with the internal stress σ_0 . This moment is to be taken as the starting point for the calculation of the time during the subsequent deformation at constant rate. An analogous process, for instance, occurs during the mastication of crude

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D054/D002

On Ultimate Stress in Constant Rate Deformation

rubber mixtures. Preliminary stresses of such type may also arise, when filling a narrow slot clearance in a rotation viscometer. On the basis of his experiments the author derives two formulae determining the time required to reach the maximum stress σ . The curves (stress as a function of time and v_0) given in the graph satisfactorily coincide with the experimental curves given by A.A. Trapeznikov and G.V. Assonova [Ref. 3]. The propounded theory holds only within the limits of justifiability of the principle of superposition (linear theory). As far as known to the author, the "charged" mechanical model was used by him for the first time. There are 1 diagram, 1 graph and 5 Soviet references.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy, Moskva (Scientific Research Institute of Rubber and Latex Products, Moscow)

SUBMITTED: March 16, 1959
Card 3/3

ZAKHARENKO, N.V.; FEDYUKIN, D.L.; GOL'BERG, I.I.

Determining the durability characteristics of latex film.

Trudy Nauch.-issl. inst. shin. prom. no.7:140-147 '60.

(MIRA 14:8)

(Latex)

GOL'BERG, I.I.; ZIL'VESTR, E.Ya.; ZUBKOVA, Yu.D.; MAYZELIS, B.A.;
CHERNAYA, V.V.

Effect of the inflation extent of a gel on the tensile strength
of vulcanized meteorological radiosonde balloon envelopes. Kauch.
i rez. 20 no.12:35-37 D '61. (MIRA 15:1)

1. Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh
izdeliy. (Colloids) (Rubber goods--Testing)

S/081/61/000/023/061/001
B106/B101

AUTHORS: Zakharenko, N. V., Fedynkin, D. L., Gol'berg, I. I.

TITLE: Determination of the stability characteristics of latex films

PERIODICAL: Referativnyy zhurnal. Khimiya, no. 25, 1961, 502 - 504,
abstract 25P365. (Tr. N.-1. in-ta shim. prom-sti, ser. 7,
1960, 140 - 147)

TEXT: The results obtained in tests of natural and polychloroprene latex (nairit Л-7 (L-7)) films prepared by ionic precipitation and by drying, were evaluated statistically. Deviations of the minimum and maximum stability values from the mean were up to 75% for films prepared by ionic precipitation, and 3 - 10% for films prepared by drying. The root mean square deviation of the stability index δ is 13 - 33%. $\leq 50\%$ of the samples show deviations within the limits laid down by GOST (GOST). Deviations of minimum and maximum specific elongation from the mean were only 1/2 to 1/3 that of the corresponding deviations in stability. Deviations of minimum and maximum thickness from the mean were up to 45%. For films of thickness < 0.2 mm, the use of cutter blades with different radii of

Card 1/2

3/081/61/000/023/061/061
 3106/3101

Determination of the stability...

curvature of the working part gave a stability versus sample thickness curve which exhibited a peak around 0.2 mm thickness. The deviations from the theory (see RZhKhis, no. 23, 1955, 54852) are possibly due to traces of the fixing agent (kaolin) remaining on the films obtained by ionic precipitation, and causing microfolds there. To lower the spread of the indices, the thickness variations may not exceed $\pm 1\%$. The curvature of the blade has an influence on the stability properties and the spread of the indices. Blades with 50 and 50 mm radii of curvature are the most acceptable. The type of blade affects the spread of the data, too. For reliable results, it is essential that parallel tests of 25 samples be carried out and the mean value of the stability determined with an accuracy of 0.5%. The mean actual stability f_0 is obtained from $f_0 = f' - \frac{\sigma^2}{n}$, where f' is the mean stability, σ the standard, and n the number of tests.

[Abstractor's note: Complete translation]

15 9300

31622
S 138/81,000 012,006/106
A081A1E6

AUTHORS: Gel'berg, I.I., Zil'vestr, E.Ya ; Zubkova, Ya.D ; Mayzels,
B.A., Chernaya, V.V.

TITLE: The effect of the degree of expansion of gel on the tear elongation of vulcanized meteorological radio-weather balloons

PERIODICAL: Kauchuk i rezina, no. 12, 1961, 35 - 37

TEXT: A study was made of the effect of the preliminary degree of expansion of gels on the tear elongation of the vulcanized balloons nos. 100 and 150; the optimum degree of the gel expansion was established. A square parabolic relation is derived between the tear elongation of the vulcanized balloons and the elongation of the crude gel. Soviet meteorological balloon-probes are produced from polychloroprene latex, П-17 (L-17), by the liquid depositing method. The present article describes the results of the investigations of balloons with an initial diameter of $D_0 = 100$ cm (No. 100) and $D_0 = 150$ cm (No. 150). The balloons were produced from a mixture of L-17 and 15% dibutylsebacynate ДБС (DBS), as antifreeze. The degree of expansion of the gel (λ_g) was determined as the ratio of the diameter of the expanded balloon

316??
S/138 61-000/012,000/003
A051/A120

The effect of the degree of expansion of ...

from gel. D_T to its diameter in an expanded state D_0 (prior to expansion of the gel walls). The air volume necessary to expand the gel was determined with a gas meter -100 (RS-100). D_T was estimated from the formula of the sphere volume. D_0 was estimated from the air volume used to inflate the balloon. The tear elongation λ_{tear} of the vulcanized balloons was determined from the ratio of the air volume within the balloons at the moment of tear V_{tear} to the tear volume V_0 needed to expand the balloon:

$$\lambda_{tear} = \sqrt[3]{\frac{V_{tear}}{V_0}} \quad (1)$$

V_{tear} and V_0 were counted by the diaphragm, mounted on the suction side of the air blower. A mathematical relation is established between the tear elongation of the vulcanized balloons and the degree of the preliminary expansion of the gels. It is assumed that the relation $\lambda_{tear} = f(\lambda_g)$ can be expressed by the equation of the square parabola:

$$\lambda_{tear} = a\lambda_g^2 + b\lambda_g + c \quad (2)$$

The average tear elongation of the balloons were calculated using (2) at various degrees of gel elongation. The assumption of the parabolic-type relation is ...

31622
 3/158 61/000/012/006/003
 A051-A126

The effect of the degree of expansion of the gel

between λ_{tear} and λ_g is tested by calculating the coefficient of the parabolic regression η according to the formula:

$$\eta = \sqrt{\frac{S^2 \lambda_{\text{calc.}}}{S^2 \lambda}} \quad (3)$$

where $S^2 \lambda_{\text{calc.}}$ is the dispersion of the calculated average values of the tear elongation of the balloons around the general average of experimental values, $S^2 \lambda$ the dispersion of the experimental values of the tear elongations around their general average. When $\eta = 1$, there is a functional square parabolic relationship between λ_{tear} and λ_g . If $\eta = 0$, then the assumption is erroneous. If η lies between 0 and 1, then the evaluation is made according to the formula. $A = \eta \sqrt{N - 1}$ (4), where N is the number of tests. If $A \geq 3$, then η differs significantly from 0, i.e., there is a relation between λ_{tear} and λ_g close to a parabola. If $A < 3$, then η differs slightly from zero and there is no parabolic relation between them. At a given degree of expansion of the gel, a redistribution of the tension takes place, connected with the smoothing out of the gel along the thickness. Thus, the gel becomes more uniform in its properties, resulting in higher values of tear elongation of the vulcanized balloons. At low degrees of gel expansion, expansion of the less dense or thin-

Card 3/4

31612
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A001/A126

The effect of the degree of expansion of ...

ner parts of the gel takes place due to non-uniformity. At further progress of deformation, the uniformity of the gel will be upset due to partial destruction of the bonds between the various globules and this, in turn, will lead to a drop in the tear elongations of the vulcanizates. There is 1 finite and 4 Soviet-Bloc references.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy
(Scientific Research Institute of Rubber and Latex Articles)

S/069/62/C21/CO2/CO2/CO2
B110/B101

AUTHORS: Dobadkin, B. A. Tarasova, Z. N., Golberg, I. I., Zaynabov, Z. G.

TITLE: Effect of vulcanization structures on the strength of vulcanizates

PERIODICAL: Kolloidnyy zhurnal, v. 24, no. 2, 1962, 141-151

TEXT: The static and dynamic strengths of three-dimensional elastomers (vulcanizates without a filler) depend on (1) composition and structure of the molecular chains, (2) type, concentration and distribution of the vulcanized bonds, (3) secondary structures. The vulcanized bonds may be (a) covalent, (b) electrovalent, and (c) local and intramolecular. Since their energies and distributions are not uniform it was suggested that

$$\rho = \tau_0(\beta) x^{\nu_1} \left(\frac{1}{1+0.339x} - q \right) \left(1 - \frac{M_c}{M} \right)^{\nu_2} \quad (1)$$

where

$$x = \left(\frac{\alpha T_c}{kT} \right)^{\nu_3} \quad (2)$$

S/069/62/024/002/002/009
B110/B101

Effect of vulcanization structures ...

$$\tau_0(\beta) = \left(\frac{d_0}{3M_0} \right)^{n_1} \left(\frac{kT}{aT_0} \right)^{n_2} T_0 \frac{1}{1 + b_1 \beta} \quad (3)$$

$$q = \frac{1}{2} \frac{1}{b_1^2} \beta - \frac{n_1}{n_1 + n_2}, \quad 0 \leq \beta \leq 1,$$

where ρ is the polymer density, M_0 is the average molecular weight between the sites, M_c is the molecular weight of the monomer, d is the average of monomeric links per chain, a is the average interstitial chain segment length, T_0 is the strength of the polymer chain, and n_1 and n_2 are the numbers of cross links of different types. Weak bonds and bonds that are easy to regroup (polysulfide, salt, and hydrogen bonds) promote the dissipation of local overstress, the alignment of the principal chain, and the formation of crystalline domains. The strong C-C bonds back up the strength of the space lattice at high temperatures and significant strain. The measurement of tensile strength was experimental proof of the proposed formula. Natural rubber was vulcanized (1) with sulfur and diphenylguanidine (polysulfide bonds ~ 27 kcal/mole), (2) treated with Co gamma rays at room temperature (lattice with C-C bonds ~ 64 kcal/mole), (3) with sulfur

Card 4/5

3/059/62/024/002/001/018
B110/3101

Effect of vulcanization structures ...

and gamma rays. The optimum tensile strengths were (1) $\sim 300 \text{ kg/cm}^2$ at $V_c = 5.8 \cdot 10^{19} \text{ ml}^{-1}$, (2) $\sim 360 \text{ kg/cm}^2$, $V_c = 3.1 \cdot 10^{19} \text{ ml}^{-1}$, (3) $\sim 310 \text{ kg/cm}^2$ at $V_c = 6.1 \cdot 10^{19} \text{ ml}^{-1}$. Movable and regroupable salt bonds lead to a great static strength of butadiene styrene rubbers vulcanized with metal oxides. The dynamic strength depends on the types of bond and on the strain conditions. Symmetrical alternating-sign twist with bending at 120°C showed that vulcanizates with thiuram with C-C and C-S-C bonds have a greater strength than vulcanizates with diphenyl guanidine and sulfur with C-S_x-C polysulfide bonds. Examination of non-filled vulcanizates of butadiene styrene rubber with sulfur, hexachloro ethane, dicumyl peroxide, and tetrachloroquinone at $\sim 100^\circ\text{C}$, 250 cps, and 50% deformation amplitude showed that the vulcanizate of carboxyl rubber with salt bonds had the highest creep rate. The creep rate was dependent on the number of deformation cycles before rupture started to occur. There are 11 figures and 2 tables.

ASSOCIATION: Moskovskiy institut tonkoy khimicheskoy tekhnologii im.
M. V. Lomonosova (Moscow Institute of Fine Chemical
Technology imeni M. V. Lomonosov)

SUBMITTED: November 14, 1961
Card 3/3

GOLDBERG, I. I.; MAYZELIS, B. A.; CHEPURNY, N. V.

Estimation of the height of ascent of radiosonde shells on the basis
of surface tests. Meteor. i gidrol. no.6:43-47 Je 1962. (MIRA 15:1)
(Radiosondes)

S/138/62/000/007/002/002
A051/A126

AUTHORS: Gol'berg, I.I.; Mayzelis, B.A.; Chernaya, V.V.; Shepelev, M.I.

TITLE: The nature of the scale factor in testing the mechanical properties of radio-sounding casings

PERIODICAL: Kauchuk i rezina, no. 7, 1962, 38

TEXT: A study was made to determine the effect of casing dimensions on the mechanical properties, characterized by the scale factor K . K expresses the ratio of the average tear elongation of the capsule $\bar{\lambda}_1$ to the average tear elongation of the sample, $\bar{\lambda}_2$, of the initial area 0.0113 m^2 :

$$K = \frac{\bar{\lambda}_1}{\bar{\lambda}_2} . \text{ The tear elongation was determined from: } \lambda_1 = \sqrt[3]{\frac{V_{\text{tear}}}{V_0}} , \text{ where}$$

V_{tear} is the volume of the casing at the moment of tear, V_0 - the initial volume of the casing. The tear elongation of the samples was determined on an instrument of double latex-film deformation. Data obtained showed the average tear

Card 1/2

S/138/62/C00/010/005/CC6
A051/A126

AUTHORS: Gol'tberg, I.I., Mayzelis, B.A., Savtsov, N.Z., Chernaya, V.V.,
Shopelev, M.I.

TITLE: Automatic instrument for two-dimensional deformation of rubber film

PERIODICAL: Kauchuk i rezina, no. 10, 1962, 43 - 46

TEXT: An automatic instrument for testing rubber film under expansion in two mutually-perpendicular directions has been developed, based on the method of elongation measurement. The new instrument, which can determine the relation, tension-elongation and tear characteristics of the rubber film in two-dimensional deformation, is said to be devoid of the disadvantages of previous similar instruments. The main advantage of subject instrument is the automatic recording of results, thermostating ease of the sample, simplicity and economy of construction. The relation between a , the length of the horizontal semi-axis and the elongation at the peak of the ellipsoid λ , and the height of the ellipsoid H is experimentally determined: $a = 1.75 \lambda - 2.75$ (1), $H = 1.59 a$ (2). The tension is calculated from formula:

Card 1/4

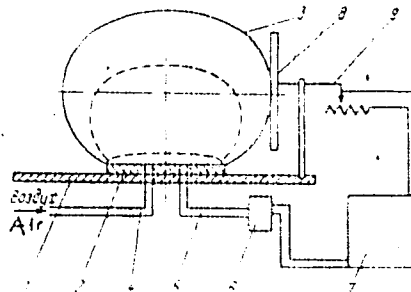
Automatic instrument for two-dimensional

S/138/62/CCO/010/005/CC8
A051/A126

vents a pressure-meter (Fig. 5), with a resistance of 214 ohm, sensitivity 6 - 8 mm water column. The 3MP-209 (3MP-209) instrument is used for recording results having an index variation half that of the Shopper-type dynamometer. There are 6 figures.

ASSOCIATION: Nauchno-issledovatel'skiy institut rezinovykh i lateksnykh izdeliy (Scientific Research Institute of Rubber and Latex Articles)

Figure 2: Diagram of the automatic instrument for two-dimensional deformation of rubber films: 1 - horizontal panel; 2 - clamp; 3 - sample; 4 - air supply pipe; 5 - pipe; 6 - pressure pickup; 7 - registering instrument; 8 - disk; 9 - rod



Card 3/4

AKA: KIN, Anomaliy Abramovitch, Individual's name: KIN, KIN,
J.M., KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN,
name: KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN, KIN,
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10/11/73, 1.0.

Reflex vascular skin reactions in patients. See, esp. 173. (1.0.01)
100-110. (1.0.01)

See also: Handed characteristics of reflex vascular skin reactions
to heat and cold. (1.0.01) (1.0.01) (1.0.01) (1.0.01) (1.0.01)
111-111. (1.0.01) (1.0.01) (1.0.01) (1.0.01) (1.0.01)

L18459-66 EWT(d)/EWP(1) IJP(c) BB/CG

ACC NR: AP6006383

SOURCE CODE: UR/0413/66/000/002/0115/0116

INVENTOR: Gol'berg, I. Ye.; Zemtsov, G. P.; Telyatnikov, L. I.

5.2

ORG: none

B

TITLE: An rf pulse-amplitude ^{166, 114}flip-flop based on tunnel diodes. Class 42, No. 178169

SOURCE: Izobreteniya, promyshlennyye obraztsy, tovarnyye znaki, no. 2, 1966, 115-116

TOPIC TAGS: flip flop circuit, tunnel diode, rf pulse, logic element

ABSTRACT: This Author's Certificate introduces: 1. An rf pulse-amplitude flip-flop based on tunnel diodes. To provide decoupling between the input and output and to simplify the design of logic circuits, the device contains two inductances which make up two tank circuits, two series-connected tunnel diodes in the supply circuit and a blocking capacitor for high frequency decoupling of the tank circuits. 2. A modification of this flip-flop which contains a single inductance connected between the input and output for high frequency decoupling of the tunnel diodes.

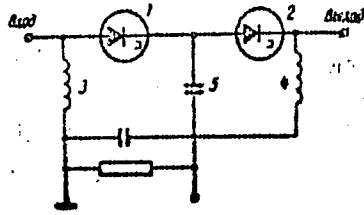
Card 1/2

UDC: 681.142.07

2

L 18459-66

ACC NR: AP6006383



1 and 2 - tunnel diodes; 3 and 4 - tank circuit inductances;
5 - blocking capacitor.

SUB CODE: 09/ SUBM DATE: 08Feb64

Card 2/2 *mgs*

GOLBERG, Z., polkovnik, voyennyy letanik pervogo klassa

Prezent any prestopizitsiya. Av. 1 Kosm. 07 no. 1352-61 34 1/2
(MIRA 19.1)

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Page 1 of 1
(000000)

GOL'BERG, I. Ye.

Stretching arc with an adjustable curvature radius for the uniform widening of cord. Kauch.i rez. 20 no.3:51 Mr '68. (MIRA 14:3)

1. Nauchno-issledovatel'skiy konstruktorsko-tekhnologicheskii institut shinnoy promyshlennosti, g. Omsk.
(Tire fabrics)

БАРМАНОВ, А.В.; НЕДЕЛОВ, И.И.

Экспериментальные исследования влияния температуры на свойства
функции. Матрица. Матрица. Матрица. Матрица.

ММА 17 127

1. Лабораторные экспериментальные исследования влияния температуры
на свойства функции. Матрица. Матрица. Матрица. Матрица.
Матрица. ММА 17 127. Матрица.

GOL'DBERG, I.Ye.

Pharmacological studies on kenempin. *Antibiotiki i khimioterapiya*
414-420. No. 164. (MIRA 1964)

1. Laboratoriya eksperimental'nogo razrabotki i ispytaniya novykh antibiotikov (zav.- prof. V.A. Shorin) Instituta po izyskaniyu novykh antibiotikov ANU SSSR, Moskva.

\ GOL'BERG, M.A. [Hol'berh, M.A.]

Direct radiation on walls and slopes in White Russia. Vestsi
AN BSSR. Ser. Fiz.-tekh. nav. no. 4:133-140 '60. (MIRA 14:1)
(Solar radiation)

GRISHCHENKO, Z.I.; GOL'BERG, M.A.

Observations on the conditions for distinguishing distant objects.
Trudy GGO no.125/82-87 '62. (MIRA 15'6.)
(Meteorological optics)

L 52750-65 EWT(1)/EWG(v)/PCC/EEC(t) Pa-5/P1-L ON/OS

ACCESSION NR: AT5011174

UR/0000/64/000/000/0206/0209

AUTHOR: Gol'berg, M. A.

TITLE: Measurement of visibility range at night from backscattering

SOURCE: Mezhdomstvennoye soveshchaniye po aktinometrii i optike atmosfery. 5th Moscow, 1963. Aktinometriya i optika atmosfery (Actinometry and atmospheric optics); trudy soveshchaniya. Moscow, Izd-vo Nauka, 1964, 206-209

TOPIC TAGS: atmospheric optics, atmospheric backscattering, visibility range, atmospheric transparency, nephelometry, scattering coefficient

ABSTRACT: Field tests have now been made of the NUOR, a nephelometric apparatus based on the backscattering principle, for determining the visibility range at night by the recording of scattering at an angle close to 180°. The theory of the apparatus has been described by the author elsewhere (Trudy VIGMP, 1963, No. 13). This paper describes the construction of calibration curves for the apparatus. This was done by using data from the literature and parallel measurements with the commonly used M-37 transparency recorder. Simultaneous measurements were made in 1962 at the photometric polygon at Kirpol'ye and at the Minskaya gidrometeorologicheskaya observatoriya (Minsk Hydrometeorological Observato-

Card 1/4

34
35
36

Approved for Release by NSA on 09-08-2013 pursuant to E.O. 13526

L 52750-65

ACCESSION NR: AT5011174

ry). It was found that for the entire range of visibility measured in the network of hydrometeorological stations, the NUOR apparatus ensures an adequate degree of accuracy. In all 898 comparative measurements there was not a single deviation between the two instruments greater than 90%, in 84% of the cases the deviations were less than 30% and in only four cases did the deviations exceed 60%. The nephelometric backscattering apparatus can be used for determining the scattering coefficient at angles close to 180°; the scattering index should be determined independently by some other method. Data are given on the values of the relative coefficient of scattering for angles of 175-180°, averaged for the entire period of observation. The comparability of the NUOR and M-37 transparency recorder is shown clearly in Fig. 1 of the Enclosure. Orig. art. has: 3 formulas, 2 figures and 1 table.

ASSOCIATION: Minskaya gidrometeorologicheskaya observatoriya (Minsk Hydrometeorological Observatory)

SUBMITTED: 25Nov64

ENCL: 02

SUB CODE: ES, OP

NO REF SOV: 007

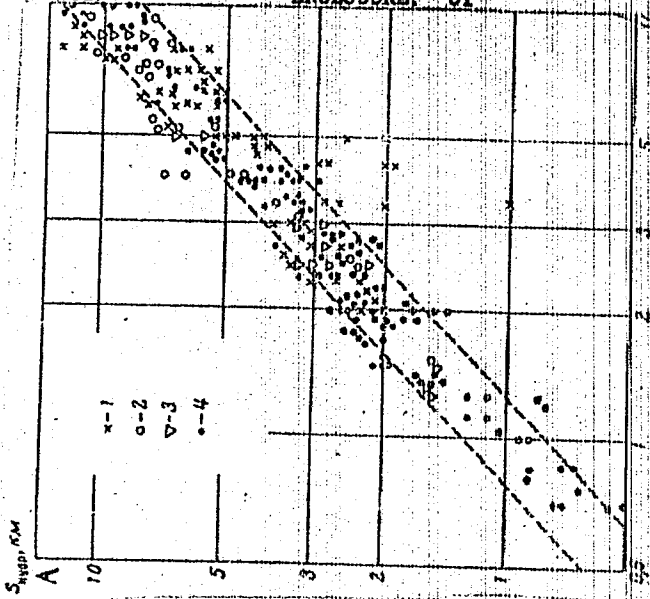
OTHER: 001

Card 2/4

L 52750-65

ACCESSION NR: AT5011174

ENCLOSURE: 01



Card 3/4

L 52750-65

ACCESSION NR: AT5011174

ENCLOSURE: 02

Figure 1. Comparison of the results of observations with the NUOR and an H-37 transparency recorder: 1) observations during snow; 2) during rain; 3) at twilight; 4) ordinary observations. A) S_{NUOR}, km B) S_{H-37}, km.

copy 4/4

~~E-60438-65~~ ~~ENG(v)/EPI(1)/ECC~~ ~~Pa. 5/P1-1~~ ~~CP~~

ACCESSION NR: AT5014141

UR/2778/85/000/013/11001/0017

AUTHOR: Dashkevich, L. L.; Gol'berg, M. A.; Mikhaylova, A. M.

21
20
8-1

TITLE: The M-71 back-scattering nephelometric device for the measurement of nocturnal meteorological visibility

SOURCE: Leningrad. Nauchno-Issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 13, 1965, 3-17

TOPIC TAGS: visibility determination, nocturnal visibility, nephelometric instrument, back scattering nephelometer

ABSTRACT: After the Glavnoye upravleniye gidrometeorologicheskoy sluzhby (Main Hydrometeorologic Service) decided to utilize the M-53 polarization visibility measuring device (L. L. Dashkevich, Trudy NII GMP, no. 10, 1961) as the basic tool for visibility determinations, the need arose for the design and construction of an auxiliary device which would enable the M-53 to be used for visibility determinations at night when ordinary objects are not visible. After trying out a nephelometric device (M. A. Gol'berg, Trudy NII GMP, no. 10, 1961) with light scattering at a 135° angle, and another device using the direct determination of light transmission, the authors found a third nephelometric

Card 1/2

L-60438-65

ACCESSION NR: AT5014141

device (the M-71) which uses back scattering at 180° to be the most convenient. The article describes the operation and experimental tests of this simple device, which is capable of determining nocturnal visibility from 50 m to 50 km. Orig. art. has: 4 formulas, 7 figures, and 6 tables.

ASSOCIATION: Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya, Leningrad (Scientific Research Institute for Hydrometeorological Instrument Design)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES

NO REF SOV: 006

OTHER: 000

Card

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2/2

L 60433-65 EWG(v)/EWI(1)/FCC P1-4/Pe-5 GN

ACCESSION NR: AT5014142

UR/2778/65/000/003/0013/0031

20
19
B+1

AUTHOR: Gol'berg, M. A.

TITLE: Theory of back-scattering nephelometric devices

SOURCE: Leningrad, Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborestroyeniya. Trudy, no. 13, 1965, 18-31

TOPIC TAGS: visibility determination, nephelometric instrument, back scattering nephelometer

ABSTRACT: The determination of the meteorological visibility by various nephelometric devices with a constant angle of view is based on the assumption that within the entire measured range of visibilities there is a strong correlation between the scattering index and the coefficient of scattering in a given direction. Since the problem of the actual connection between the two quantities has not yet been solved, the author proceeded to develop the necessary theory dealing with particular back-scattering nephelometric devices (L. L. Baskovich, M. A. Gol'berg, A. M. Mikhaylova, Trudy NII GGP, no. 13, 1965, pp 3-13). He derives: 1) a practical formula for the determination of the meteorological visibility from the photometer reading for the case of the M-3 polarization

Card 1/2

L 60101-65

ACCESSION NR: AP6014925

db in the medium-wave band and 3 db maximum in the short-wave band. Orig. art.
has: 2 figures.

ASSOCIATION: none

SUBMITTED: 00

ENCL: 00

SUB CODE: EC

NO REF SOV: 000

OTHER: 000

Card ^{MC} 2/2

L 60434-65 EWC(v)/EWT(1)/ECO P1-4/Pa-5 CW

ACCESSION NR: AT5014143

UR/2778/65/000/013/0032/0036

22
21
B-1

AUTHOR: Gol'berg, M. A.

TITLE: Basic results of yield tests of the M-71 back-scattering nephelometric device

SOURCE: Leningrad. Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 13, 1965, 32-36

TOPIC TAGS: visibility determination, nocturnal visibility, nephelometric instrument, back scattering nephelometer

ABSTRACT: Yield tests of the M-71 back-scattering nephelometric device (I. L. Dashkevich, M. A. Gol'berg, A. M. Nikhaylova, Trudy NII GMP, no. 13, 1965, 3-17) were carried out from November 1962 to February 1963 at Voyevozovo, Aleksandrova, Kiropol'ye, Karadaga, and Minsk. Of the 5474 observations, 630 were carried out at night, 740 in the presence of snow, and 440 during rain. The accuracy was tested by comparing data from the new device with those from the M-37 transparency meter. The present paper reports statistically processed data and shows that the mean square error of visibility determinations is (in the middle range) about

Card 1/2

L 60434-65

ACCESSION NR: AT5014143

20%, while during haze, fog, and high transparency the error is 25-30%. The instrument can be used whenever the sun is at least 8° beyond the horizon. Orig. art. has: 2 figures and 3 tables.

ASSOCIATION: Minskaya GNO (Minsk GNO)

SUBMITTED: 00

ENCL: 00

SUB CODE: ES

NO REF SOV: 003

OTHER: 000

Card

KL
2/2

ACC NR: AT7001809

SOURCE CODE: UR/2778/66/006/015/0032/0039

AUTHOR: Gol'berg, M. A.

ORG: none

TITLE: Errors in measuring visual range along an incline by the method of equal angles

SOURCE: Leningrad. Nauchno-issledovatel'skiy institut gidrometeorologicheskogo priborostroyeniya. Trudy, no. 15, 1966, 32-39

TOPIC TAGS: error measurement, error, approximation error, visibility measurement, visibility range measurement, equal angle method, incline visibility

ABSTRACT: The author examines an approximation theory for the measurement of the range of visibility along an incline by the method of equal angles. The method involves sighting an illuminated patch of air with two receivers, with the angles between the optical axes of the receivers and the beam of light being equal. The errors inherent in the method, and their magnitude as a function of the parameters of the equipment are analyzed, and recommendations are made on the

Card 1/2

ACC NR: AT7001809

selection of optimum parameters, particularly the angle of scattering. Orig. art.
has: 2 figures and 3 tables. [Translation of author's abstract] [SP]

SUB CODE: 08/SUBM DATE: none/ORIG REF: 003/OTH REF: 001/

GREBTSOV, P.P., red.; GOL'BERG, M.L., red.; ZUBRILENA, Z.P., tekhn.red.

[Collective farms as owners of agricultural machinery]
Kolkhozy - khoziaeva tekhniki. Moskva, Gos.izd-vo sel'khoz.
lit-ry, 1958. 109 p. (MIRA 12:7)
(Farm mechanization)

USSR Electricity - DC Generators
Electrolysis

Jan 52

"New Method for Measuring Total Current of DC Generators Operating in Parallel," Engr M. S. Gol'berg

"From Energet" No 1, pp 16-17

Discusses method proposed by Engrs N. V. Kopylov and I. M. Korylovskiy of Yuzhelektromontazh for measuring total current of dc generators in parallel-let operation supplying electrolytic baths. Method permits use of over-all shunt of the order of 10 a instead of usual high-capacity type (i.e., type 242737

TESTS CONDUCTED BY PLANTS OF MIN OF ELPO INDUSTRY, FACED AT 1972-81, CONSERVES NONFERROUS METALS, AND PROVIDES SIMILAR INSTALLATION.

242737

GOL'BERG, M.S., inzhener.

Aluminum-core cable and wire connections and terminals. Elek.
sta. 25 no. 10:50 0 '54. (MIRA 7:11)
(Electric conductors)

AID P - 3402

Subject : USSR/Electricity
Card 1/1 Pub. 29 - 17/30
Author : Gol'berg, M. S., Eng.
Title : Assembling large electric machinery outside the
assembly area
Periodical : Energetik, 10, 23-25, 0 1955
Abstract : The author describes a case of assembling fifteen
electric machines with a total weight of 240 t
delivered in a dismantled state. He presents the
method of assembling and three photographs.
Institution : None
Submitted : No date

AID P - 3325

Subject : USSR/Power Engineering

Card 1/1 Pub. 26 - 11/28

Author : Gol'berg, M. S., Eng.

Title : Connecting aluminum electrical equipment to buses

Periodical : Elek. sta., 8, 36-37, Ag 1955

Abstract : The article points out that the electrical equipment now in use at power plants was designed to operate with copper buses. The use of aluminum buses brings forward the necessity of revising and readjusting the process of their installation. The author recommends the use of welded copper-aluminum or copper plates with bolts.

Institution : None

Submitted : No date

NIKOLAYEV, N.N.; GOL'BERG, N.V.

Continuous production of cotten hosiery. Log.pron.15 [1.e.16]
no.3:16-19 Mr '56. (MLBA 9:7)
(Hosiery industry)

GOL'BERG, P., inzh.

Structures for storing corn cobs. Sel'.stroj. 15
no.7:10-11 J1 '60. (MIRA 13:8)
(Berezovka District--Corn(Maise)--Storage)

GOL'BERG, P., inzhener.

Roofing tiles made of rubbered waste products. Self-stud. IO no. 1:
17-19 Ja '55. (MIRA 8:4)
(Roofing)

GOL'BERG, P., inzhener.

Sectional corn cribs of blocks of shell rock. Mik.-elev.prom. 21
no.12:12-13 D '55. (MLRA 9:4)
(Granaries) (Limestone)

GOL'BERG, P., inzh.

Corn crib built of solid and hollow bricks with a capacity of 250-
750 tons. Sel'. stroi, 12 no.10:15-17 0 '57. (MLRA 10:11)
(Corn (Maize)--Storage) (Farm buildings)

GOL'BERG, P., inzh.

Large trenches for snailing corn. Cell, stroil. 13.01. 7:0-9
31 '58.

(MIRA 11:8)

(Siles)

GOL'BERG, P., inzh.

Potentialities for lowering construction costs of silo structures. Sel'.stroj. 14 no.8:23 Ag '59. (MIRA 12:12)
(Silos)

GOL'BERG, P., kand.tekhn.nauk; RENDINO, S., arkhitektor

Panel and frame-panel reed construction. Sil'.bud. 11 no.6:12-14
Je '61. (MIRA 14:7)

(Reed products) (Building)

GOL'BERG, P., inzh.

Road building on livestock farms. Sel'. stroi. 15 no. 3:25
Mr '61. (MIRA 14:5)

(Road construction)

AYZENBERG, M.; GOLDFERG, I.

Personnel for large-panel building. Prof.-tech. obr. 30
no.12:26-27 D. '63. (MIRA 17:1)

1. Zamestitel' mekhanika Otdela tekhnicheskoy informatsii
Orgtekhstroya Glavchepromstroya, d. Olesya (for Ayzenberg).

GOL'BERG, P.A.

Beskonechnyye poluprostyie gruppy. Matem. SB., 17(59), (1945), 131-142.
Silovskiye P-podgruppy lokal'no normal'nykh grupp. Matem. SB., 19(61), (1946),
451-460.

SO: Mathematics in the USSR, 1917-1947
edited by Kurosh, A.G.
Markushevich, A.I.
Rashevskiy, R.K.
Moscow-Leningrad, 1948

Golberg, P.

Golberg, P. The Sylow n -groups of locally normal groups. *Acta Math. (N.S.)* 19(61): 457-70 (1968). (Russian; English summary.)
The author defines locally normal groups (every finite subset generates a finite invariant subgroup), locally soluble groups (every finite subset generates a finite soluble subgroup) and local finite automorphisms (operating locally on every finite subset), in order to generalize the theorems of P. Hall relating to characteristic properties of finite soluble groups and Sylow subgroups. *London Math. Soc.* 3: 98-105 (1968); 12: 198-200 (1967); *Proc. London Math. Soc.* (2) 43: 305-323 (1967). *L. E. Math. Lib.*

2

Source: Mathematical Reviews,

1968

No. 787

902

Gal' Berkov

Gol'berg, P. A. Sylow bases of π -separable groups
[Doklady Akad. Nauk SSSR (N.S.) 65, 615-618 (1946).
(Russian)]

Let σ_1 be a collection of k primes. If every index in a composition series of a finite group G is divisible by at most one prime of σ_1 , then G is called π -separable (σ_1), or π -separable. If σ_1 contains all the prime factors of the order of the group, then the group is soluble. Let Σ be a set of Sylow subgroups of G ; suppose that, for each subset T of Sylow subgroups from Σ , the order of the group generated by T is divisible by no primes other than those which correspond to the Sylow groups in T . Then Σ is called a Sylow basis in G . Theorem 1. Let a finite group G be π -separable (σ_1). Then G has a Sylow basis which contains one Sylow subgroup corresponding to each prime in σ_1 . Proof: If $k=1$, this is Sylow's theorem. If $k>1$, there is a normal subgroup H , $G/H \cong P_1$; suppose P_1 has a Sylow basis $\{S_1, S_2, \dots, S_k\}$, where S_1, \dots, S_k are Sylow subgroups of G/H belonging to σ_1 . Let $S_1, P_1 \in \Sigma$. The set of those elements in G/H which have order in σ_1 is a Sylow basis into itself. The indices of $S(G) [S(H)]$ in $G [H]$ are equal from this it follows that $\{S_1, S_2, \dots, S_k\}$ is a Sylow basis in G , where P_1 is the Sylow subgroup of $S(G)$ corresponding to the prime p_1 . Theorem 2. If G has a Sylow basis corresponding to the same set of primes are mutually conjugate. These theorems generalize results of P. Hall [Proc. London Math. Soc. (2) 35, 322-323 (1937)] and S. A. Cuntz [Doklady Akad. Nauk SSSR (N.S.) 59, 443-445 (1948)].
[Zbl. Math. 39, 492.]
J. K. BREWER

Source: Mathematical Reviews,

Saw

56-20000-100

Mathematical Reviews
Vol. 14, No. 11
November, 1953
Algebra

1. Gol'berg, P. A. Sylow bases of infinite groups. *Mat. Sbornik N.S.* 32(74), 465-476 (1953). (Russian)

If G is a group, the set $S: S_1, S_2, \dots$ of Sylow subgroups forms a Sylow basis if no element of $[S_i]$, $\alpha \in T$, is divisible by any primes not corresponding to the subgroup involved, whenever T is a subset of the integers, and if (S) is G -Theorem. Let S be a Sylow basis, let $N(S)$ denote the intersection of the normalisers of S and all bases conjugate to S in G . If the factor group $G/N(S)$ is locally finite and satisfies the descending chain condition for subgroups (d.c.c.), any two Sylow bases of G are mutually conjugate. This generalizes a result of Baer [*Dokl. Math. J.*, 6, 598-614 (1940); these Rev. 2, 2] where $G/N(S)$ is assumed to be finite. The paper shows that the theory of Sylow bases and Sylow π -bases (condition restricted to Sylow subgroups corresponding to a set π of primes) can be extended from finite groups to locally finite groups with d.c.c. [The reviewer can supply a translation of this paper.]
I. L. Brenner.

USA/Algebra - Group Theory

01/12/86

"Existence and uniqueness of subgroups of finite order," I. A. Shubert, *Dokl. Akad. Nauk SSSR*, 1967

Int. Ser. Math. Sci. (N.S.), No. 1, pp. 141-142.

Proves the condition in the Sylow-type theorem. Demonstrates the necessity of the sufficient and necessary criteria for the existence of subgroups and the theorem in the main theorem of Sylow type. Cites related work of I. A. Shubert, "Theory of Groups of Finite Order," *Dokl. Akad. Nauk SSSR* (1964). Cites the Soviet work of I. A. Shubert (1963), J. L. Solov'ev (1961), and S. V. Shubert (1961, 1962).

GOL'BERG, P.A. (Moscow)

One attribute of conjugation for a group of Sylow's P -bases of an arbitrary group. Mat.sbor. 36 no.2:335-340 Mr-Apr '55. (MLRA 8:6)
(Groups, Theory of)

16(1)

30V/140-59-4-7/26

AUTHOR: Gol'berg, P.A.

TITLE: VF - Subgroups of Infinite Groups

PERIODICAL: Izvestiya vysshikh uchebnykh zavedeniy. Matematika, 1959, Nr 4, pp 50 - 55 (USSR)

ABSTRACT: A group with the property v is called v -group. A group is called V -group, if it contains an increasing normal sequence $E = A_0 \subset A_1 \subset A_2 \subset \dots \subset A_\alpha \subset \dots \subset A_\mu = G$ with the property that in the system of property V there exists to every $\alpha < \mu$ a property $v^{(\alpha)}$ so that $A_{\alpha+1} / A_\alpha$ is a $v^{(\alpha)}$ -group. A V -group G is called VF -group, if V contains at least one property which holds for all finite groups. The maximum V -normal divisor E_μ of G is called V -radical of G .
 Theorem: Every VF -subgroup A of an arbitrary group G which possesses finitely many conjugate subgroups in G is contained in the VF -radical of G .
 Theorem: A subgroup B of an arbitrary group G is assumed to be generated by an arbitrary set \sum of VF -subgroups of G ,

Card 1/2

VF-Subgroups of Infinite Groups

SOV/140-59-4-7/26

whereby each generating subgroup is assumed to possess finitely many conjugate subgroups in G . Then B is a VF-group.

Theorem : Let an arbitrary set Σ of VF-subgroups be given in G ; each of these subgroups is assumed to possess finitely many conjugate subgroups in G ; let A be an arbitrary VF-group. A subgroup generated by A and Σ is a VF-group. Altogether there are given 8 theorems. There are 5 references, 4 of which are Soviet, and 1 German.

ASSOCIATION: Kolomenskiy pedagogicheskiy institut (Kolonna Pedagogical Institute)

SUBMITTED: June 4, 1958